WHAT IS CLAIMED IS:

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 A composition comprising a haptenized tumor cell or tumor cell extract
comprising from about 2×10 ⁵ to about 2.5×10 ⁶ tumor cells or cell equivalents per dose, wherein
the tumor cells or cell equivalents are conjugated to a hapten and rendered incapable of growth or
multiplication in vivo.

- 2. The composition of claim 1, wherein the hapten is selected from the group consisting of dinitrophenyl, trinitrophenyl, N-iodoacetyl-N'-(5-sulfonic 1-naphthyl) ethylene diamine, trinitrobenzenesulfonic acid, fluorescein isothiocyanate, arsenic acid benzene isothiocyanate, sulfanilic acid, arsanilic acid, dinitrobenzene-S-mustard and combinations thereof.
 - 3. The composition of claim 2, in which the hapten is dinitrophenyl.
- 4. The composition of claim 1, wherein the tumor cell extract comprises tumor cell membrane components.
- 5. The composition of claim 1, wherein the tumor cell extract comprises tumor cell polypeptides.
- 6. The composition of claim 1, wherein the tumor cells or tumor cell extracts originate from a tumor selected from the group consisting of melanoma, ovarian cancer, colon cancer, breast cancer, rectal cancer, lung cancer, kidney cancer, prostate cancer, and leukemia.
 - 7. The composition of claim 6, wherein the tumor is melanoma.
- 8. The composition of claim 6, wherein the tumor is ovarian cancer.

1	9.	The composition of claim 1, wherein the tumor cell or tumor cell extract has been							
2	rendered incapable of growth by irradiation.								
1	10.	The composition of claim 1, free of any adjuvant.							
1	11.	A method for inducing an anti-tumor response in a mammalian patient suffering							
2		, which method comprises administering to the patient a composition comprising a							
3	haptenized tu	tumor cell or tumor cell extract comprising from about 2×10 ⁵ to about 2.5×10 ⁶ tumo							
4		equivalents per dose, wherein the tumor cells or cell equivalents are conjugated to a							
5	hapten, and r	nd rendered incapable of growth or multiplication in vivo.							
	12.	The method of claim 10, which further comprises administering a first dose of the without any adjuvant.							
1.11 13 1	13.	The method of claim 10, wherein the composition is administered prior to a							
3;	second comp	second composition comprising an adjuvant and a tumor cell or tumor cell extract, which sec							
2 11 3	composition								
## 4	a) is	conjugated to a hapten, and							
1.3 1.4 5	b) co	ontains from about 2×10 ⁵ to about 2.5×10 ⁶ tumor cells or tumor cell equivalents.							
1 2	14.	The method of claim 13, wherein the adjuvant is selected from the group f <i>Bacille Calmette-Guerin</i> , Q-21, and detoxified endotoxin.							
1	15.	The method of claim 11, wherein the composition is administered prior to the							
2	administrati	on of cyclophosphamide.							
1 2	16.	The method of claim 14, wherein the composition is administered four to seven the administration of cyclophosphamide.							

	1	17. The method of claim 10, wherein the tumor cells or tumor cell extracts originate							
	2	from a tumor selected from the group consisting of melanoma, ovarian cancer, colon cancer,							
	3	breast cancer, rectal cancer, lung cancer, kidney cancer, prostate cancer, and leukemia.							
	1	18. The method of claim 10, wherein the tumor cells or tumor cell extracts are							
	2	autologous.							
	1	19. The method of claim 10, wherein the tumor is melanoma.							
	1	20. The method of claim 10, wherein the patient is a human.							
Min than that their	1	21. A method for inducing an anti-tumor response in a mammalian patient							
	2	suffering from a tumor, which method comprises administering to the patient:							
Harli and Gan	3	(a) on the first day of the treatment, a composition comprising autologous tumor cells							
	4	tumor cell extracts, which corresponds to from about 2×10 ⁵ to about 2.5×10 ⁶ tumor cells, free							
1::2	5	any adjuvant;							
	6	(b) four to seven days after initiation of the treatment, an immunomodulatory agent that							
	7	potentiates protective anti-tumor immunity or inhibits immune suppression, or both; and							
11:E	8	(c) at least one additional composition comprising autologous tumor cells or tumor							
	9	extracts.							
	1	22. The method of claim 21, in which the immunomodulatory compound is							
	2	cyclophosphamide.							
	1								
	1	23. A method for inducing an anti-tumor response in a mammalian patient							
	2	suffering from a tumor, which method comprises administering to the patient:							
	3	(a) on the first day of the treatment, a composition comprising a haptenized autologous							
	4	tumor cell or tumor cell extract which corresponds to from about 2×10 ⁵ to 2.5×10 ⁶ tumor cells							
	5	free from any adjuvant							

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- (b)) four to seven	aays a	anter	initiation	or the	treatment,	cyclo	pnos	pnamiae;	ana

- (c) at least one week after initiation of the treatment, a composition comprising an adjuvant and a haptenized autologous tumor cell or tumor cell extract which corresponds to from about 2×10^5 to about 1×10^7 tumor cells.
 - 24. The method in claim 22, in which the adjuvant is *Bacille Calmette-Guerin*.